

FOMINYKH, A.Ya.

Change in the schematic for connecting VChPD-59 apparatus
in an operator station. Avtom., telem. i svyaz' 7 no.10:40
0 '63. (MIRA 16:11)

1. Starshiy elektromekhanik Fayansovskoy distantzii
signalizatsii i svyazi Moskovskoy dorogi.

MATALIN, V., inzh.; FOMINYKH, B., inzh.

Ship sewage disposal system. Rech.transp. 21 no.7:19-20 J1
'62. (MIRA 15:8)
(Ships--Sanitation)

STEPANOV, B.A.; FOMINYKH, B.A.; GAREYEV, V.N.

Series of metal stresses in the solutions of alkali sulfides.
Izv.AN.U.S.S.R.Ser.tekh.nauk 9 no.5:75-77 '65.

(MIRA 18:10)

1. Sredazniprotsvetmet.

FCMINYKH, B. T.

• FA 63/49T30

USSR/Engineering
Mechanization
Ship Loading

Dec 48

"A Rapid Continuous Method for Loading Operations
in River Harbors," A. F. Blidman, B. T. Fominukh,
42 pp

"Mekh Trud i Tyazh Rabot" No 12

Stresses necessity of complete mechanization of
loading and unloading operations in harbors to
speed up the turnover of ships and increase labor
productivity. Discusses use of a rapid processing
of bauxite ore barges in the Zaporozh'ye area, a

63/49T30

USSR/Engineering

(Contd)

Dec 48

rapid salt reloading in Gorn' Harbor, and coal
reloading at Dnepropetrovsk. Refers to mechaniza-
tion of bunkering steamboats in Kiev and Khovsk
harbors. Includes illustrations and graphs.

63/49T30

FOMINYKH, B., inzh.

Passing ships and rafts through sluices of the Kuybyshev Hydraulic Engineering System. Rech. transp. 20 no. 3:41-42 Mr '61.

(MIRA 14:5)

(Volga River—Sluices) (Inland water transportation)

FOMINYKH, F.D.; TOMILIN, N.F.; PARFENOV, V.V.

Correctless phase-shifting semiconductor device. Nauch. trudy
KNIUI no.15:5-10 '64. (MIRA 18:8)

BYR'KA, V.F.; KRAUS, E.G.; TOMILIN, N.F.; PARFENOV, V.V.; FOMINYKH, F.D.

Experimental stoping cutter-loader with a regulated d.c.
drive. Nauch. trudy KNIUI no.15:23-40 '64. (MIRA 18:8)

FOMINYKH, G.V.

Technical consultation. TSement 29 no.5:21 S-O '63.

(MIRA 16:11)

1. Vsesoyuznoye gosudarstvennoye spetsial'noye byuro po
provedeniyu puskovo-naladochnykh i proyektno-konstruktorskikh
rabot v tsementnoy promyshlennosti Gosstroya SSSR.

FOMINYKH, I. P.

PA 228T98

USSR/Metallurgy - Foundry Practice

May 52

"Easily Removable Risers With Chamotte-Clay Separating Plates," A. M. Mikhaylov, I. P. Fominykh, Kovrov Excavator Plant

"Litey Proizvod" No 5, pp 28, 29

Discusses application of plates made of chamotte-clay mixt and describes expts for establishing effect of sepg plates on metal of castings and proper technology of plate manuf. Decisive factor in good quality of plates is temp of burning, which has to be as high as 1,200°.

228T98

25(1)

PHASE I BOOK EXPLOITATION

SOV/1771

Fominykh, I.P., Yu. Yu. Zelikman, and V. Knyazev

Novoyev v liteynom proizvodstve; iz opyta liteynykh tsekhov predpriyatiy
Tuly i oblasti (New Developments in Founding; Foundry practices in
Tula and Tula Province) [Tula] Tul'skoye knizhnoye izd-vo, 1956.
78 p. 3,000 copies printed.

Ed. (Title page): I.P. Fominykh, Candidate of Technical Sciences;
Ed. (Inside book): M.N. Tytkin; Tech. Ed.: L.I. Pulin.

PURPOSE: This book is written in simplified technical language by specialists
in the field of casting for foundry workers and for the general public.

COVERAGE: This book contains articles describing recent developments and
innovations in foundry practice. The articles deal with a method of steel
casting which produces easily removed dead heads, chill casting of mining
machine parts, chill casting of bronze, and the utilization of resins for
mold mixtures. No personalities are mentioned. References are given at
the end of each article

Card 1/2

New Developments in Founding (Cont.)

SOV/1771

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Zelikman, Yu., Chief Metallurgist, Laptev Plant "Uglenash". and Ye. Rubets, Senior Plant Engineer. Chill Casting in Building of Mining Machines	43
Knyazev, V., Technologist of Foundry Shop of MPS Plant. Chill Molds for Casting A Zh 9-A Bronze	55
Fominykh, I.P., Candidate of Technical Sciences. Casting in Shell Molds	70

AVAILABLE: Library of Congress (TS233.F63)

GO/gmp
6-25-59

Card 2/2

FOMINYKH, I.P., inzhener.

~~_____~~ Some peculiarities of shell molding. Lit. proizv. no.2:28-29 P '57.
(Shell molding (Founding)) (MLBA 10:4)

FOMINYKH I.P.
KRISHTAL, M.A., kand.tekhn.nauk; FOMINYKH, I.P., kand.tekhn.nauk;
TSEYTLIN, A.Ya., inzh.

Characteristics of surface structure of carbon-free
malleable cast iron. Lit.proizv. no.8:22-23 Ag '57. (MIRA 10:10)
(Cast iron--Metallography)

SOV-128 58-8-6/21

AUTHORS: Krishtal, M.A., Candidate of Technical Sciences, Zeminykh
I.P., Candidate of Technical Sciences, Rikman, E.P., Engineer

TITLE: Peculiarities of Magnesium Distribution During Annealing
of Magnesium-Treated Malleable Iron (Osobennosti raspredeleniya magniya pri otzhige magniyevogo kovkogo chuguna)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 8, pp 10-11 (USSR)

ABSTRACT: The effect of magnesium on the formation of spheroidal graphite has been studied since the discovery of magnesium iron [Ref.1-7]. The purpose was to study the behaviour of manganese in the process of annealing, e.g. the redistribution of magnesium between the metal and the graphite. The study was carried out on specimens of iron of different composition and with the use of a device for localized spectrum analysis (described and illustrated by a diagram). It was stated that silicon, solved in metal, ties magnesium, and hence an increased silicon content in iron entails an increased solubility of the manganese therein. The bond between the atoms of silicon and magnesium impedes the transfer of magnesium from the matrix (austenite) into the graphite during the process of annealing. In low-silicon iron,

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SOV-128-58-3-6/21

Peculiarities of Magnesium Distribution During Annealing of Magnesium-Treated Malleable Iron

the magnesium atoms in the matrix are only weakly bound, and migrate into the graphite even at comparatively low temperatures. There are 2 graphs, 1 diagram, and 7 references, 5 of which are Soviet, 1 English and 1 German.

1. Iron alloys--Heat treatment
2. Magnesium--Metallurgical effects

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S/148/60/000/008/011/018
A161/A029

AUTHORS: Fominykh, I.P.; Volodin, I.P.; Merkulov, F.N.; Ryazantseva, V.N.

TITLE: Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. - Chernaya metallurgiya, 1960, No. 8, pp. 153 - 159

TEXT: At the Gor'kovskiy avtozavod (Gor'kiy Automobile Works), where malleable cast iron had been modified by boron and bismuth (Ref. 7), the annealing time had been out from 60 to 35 - 36 hours (annealing in electric 25-t chamber furnace). The Tul'skiy kombaynovyy zavod (Tula Harvesting Combine Works), aided by Tul'skiy mekhanicheskii institut (Tula Institute of Mechanics), utilized the Gor'kiy works experience and attempted to obtain malleable cast iron with raised strength on account of the predominating perlite component. Cast iron K4-45-5 (Kch-45-5) used for the experiments had the following composition: (in%): 2.45-2.8 C; 0.9-1.3 Si; 0.45-0.65 Mn; not above 0.12 S; 0.15 P, and 0.07 Cr. It was smelted in a cupola furnace and superheated in an acid electric furnace. The powdered modifier consisted of ferro-silico-boral (an alloy of iron-silicon-boron-
↓

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A161/A029

Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

-aluminum, with 5-15% B) and metallic bismuth, and was placed in a paper bag and held into the metal jet during pouring into the ladle; 0.003-0.004% B and 0.002-0.003% Bi was used (of the metal weight). Parts for a new machine were cast from modified cast iron. The parts and specimens were annealed in laboratory ~~PN-11~~ (PN-11) chamber furnaces. Three microphotograph sets show the structure of the initial and of the modified cast iron (a and b, Figs. 1,3,4). It was stated that boron and bismuth refined dendrites; the modified iron contained a considerably higher quantity of carbides; it was assumed that cementite of modified iron contained less carbon and hence had other properties than usual, viz. lower stability, which had been proven by I.F. Kurtov et al. (Ref. 7); graphite grains were refined. Five different annealing process versions were tried to study the decomposition rate of primary cementite in the first stage of graphitization. It was considerably more intense in modified cast iron than in the initial cast iron. Cementite of modified cast iron was less stable at all temperatures between 850 and 1,050°C, and the metal had a high tendency to chilling at usual and higher Si content. The finally chosen annealing schedule is shown in Figure 6, with a total time of only 8 hours. It produced malleable cast iron with a tension strength not below 45 kg/mm² and an elongation of 5% and more only when the boron-

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S/148/60/000/008/011/018
A161/A029

Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

-bismuth modifier was used. The experimental results fully confirmed the data obtained by I.F. Kurtov (Ref. 7) and N.G. Girshovich (Refs. 2,8) and proved that addition of boron and bismuth greatly speeds up the annealing of malleable cast iron and improves graphitization but has no marked effect on strength. The author points out that in American practice high-strength cast iron with lowered plasticity is used very extensively, and suggests the application of such cast iron with an ultimate strength which is higher by a factor of 1.5. There are 6 figures and 8 Soviet references.

ASSOCIATION: Tul'skiy mekhanicheskiy institut (Tula Institute of Mechanics) and Tul'skiy kombaynovyy zavod (Tula Harvesting Combine Works)

SUBMITTED: April 6, 1960

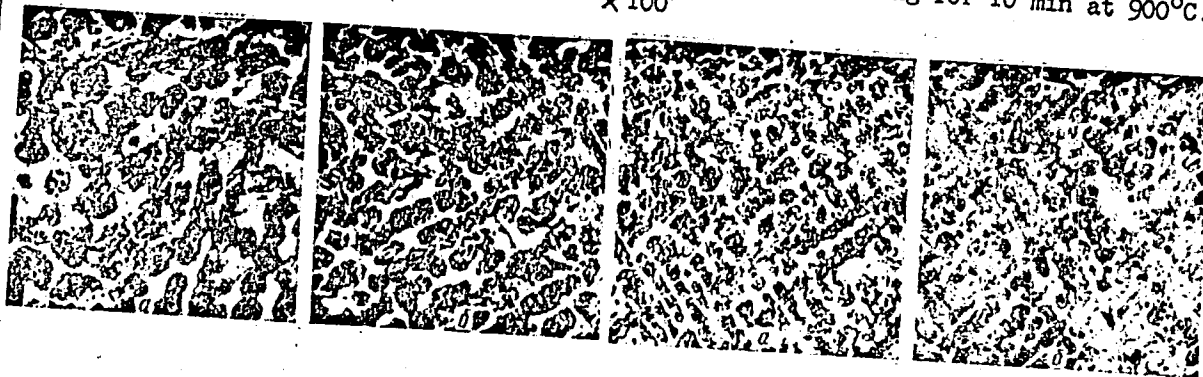
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Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

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A161/A029

Figure 1: Structure of Initial and Modified Cast Iron Prior to Annealing. $\times 100$

Figure 3: Structure of Initial and Modified Cast Iron After Holding for 10 min at 900°C . $\times 100$



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A161/A029

Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

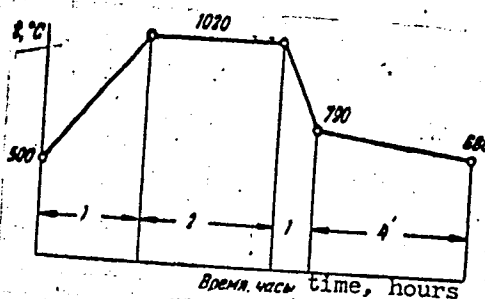
Figure 4:

Structure of Initial and Modified Cast Iron After Holding for 10 hours at 950°C. $\times 100$



Figure 6:

Graph of Accelerated Annealing of Modified Malleable Cast Iron.



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S/123/61/000/011/020/034
A004/A101

AUTHORS: Krishtal, M. A.; Fominykh, I. P.; Lyzlov, B. A.

TITLE: Properties, structure and machinability of malleable cast iron with chromium and antimony for fittings

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 3, abstract 11018 ("Sb. tr. Tul'sk. mekhan. in-ta", 1960, no. 15, 20-26)

TEXT: An increase in the chromium content of the metal, when alloyed steel gets into the charge, causes a considerable prolongation of the annealing cycle and also tool breakage during the working of fittings as a result of insufficient annealing in the first stage. Investigations showed that a Cr-content of 0.15% is neutralized by the addition of 0.23% Sb to the cast iron. Cast iron containing 2.56% C, 1.5% Si, 0.15% Cr, 0.23% Sb, after heating to 960°C for 3 hours, holding of 15 hours, cooling down to 720°C for 2 hours and holding at this temperature for 10 hours, had the structure of pearlite malleable cast iron of the KY-54-5 (KCh-54-5) grade. Tests of the machinability showed that in the time interval between the sharpening of the taps 5-6 times more fittings from malleable cast iron alloyed with chromium and antimony (HB 170-200) could be

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Properties, structure and machineability ...

S/123/61/000/011/020/034
A004/A101

machined than those of ordinary non-alloyed cast iron. There are 3 figures.

L. Tumanova

[Abstracter's note: Complete translation]

Card 2/2

FOMINYKH, I.P.; ZHURAVLEVA, L.A.

Reducing the amount of hard work involved in the manufacture of equipment for shell molding. Lit. proizv. no.5:44-45 My '62. (MIRA 16:3)
(Shell molding—Equipment and supplies)

BUCHINSKIY, V.V.; FOMINYKH, I.P.

Increasing the stability of crucibles in melting and distributing *ferasoes*
in die casting foundry shops. Lit.proizv. no.4:44-45 Ap '63.

(Crucibles)

(Die casting)

(MIRA 16:4)

ASTASHKIN, V.G., inzh.; FOMINYKH, I.P., kand.tekhn.nauk

Restoration of GAZ-51 automobile crankshafts by build-up welding
under flux. Svar. proizv. no.10:38 0 '63. (MIRA 16:11)

1. Skuratovskiy avtoremontnyy zavod (for Astashkin). 2. Tul'skiy
mekhanicheskiy institut (for Fominykh).

FOMINYKH, I.P.; NOVIKOV, P.T.; SOLOKHIN, P.I.

Using the primary heat of castings to hasten their annealing.
Lit. proizv. no.4:28-29 Ap '64. (MIRA 18:7)

SOROKIN, P.I.; FOMINYKH, I.P.; BESPALOV, Ya.G.; POBEREZKIN, A.Z.; ZINCHENKO,
A.M.; OSKOLKOV, Ye.A.

Inoculation of cupola cast iron with rare-earth metal alloys.
Lit. proizv. no.9:27-31 S '64. (MIRA 18:10)

LOPATINA, K.A., inzh.; POMINITSKI, I.P., kand. tekhn. nauk

White cast iron inoculated with boron and silicon. Lit. review.
no.1:7 Ja '66. (MIRA 19:1)

BOGACHEV, I.N.; FOMINYKH, K.P.

Removal of graphite from the carbide deposit of iron carbides.
Zav. lab. 30 no.8:934-935 '64. (MIRA 18:3)

1. Ural'skiy politekhnicheskii institut imeni Kirova.

Author: I.P.; SMIRNOV, N.P.; SAMOYLOV, N.A.; DOLMATOV, L.V.

Application of synthetic zeolites for drying hydrocarbons. Khim. i tekhn. topl. i masel 10 no.2:19-20 F '85.

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut. (MIRA 16:8)

PONTYKH, I. F.: "Dearomatization of the kerosene-gas oil fractions of catalytic cracking." Min Higher Education. Moscow Order of Labor Red Banner Petroleum Institute Academician I. M. Gubkin. Chair of the Technology of Oil and Gas. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnye letopis' No. 22, 1956

IVANOV, Nikolay Vasil'yevich; FOMINYKH, L.I., kand.ekon.nauk,dots.,
red.; GOL'DSHTEYN, L.Ye., red.; YASHEN'KINA, Ye.A., tekhn.
red.

[Concentration of production and the specialization of enter-
prises of local state industry]Kontsentratsiia proizvodstva i
spetsializatsiia predpriatii mestnoi gosudarstvennoi pro-
myshlennosti. Kuibyshev, Kuibyshevskii planovoi in-t, 1961. 55 p.
(MIRA 15:8)

(Kuybyshev Province---Industrial management)

KLYARFEL'D, B.N.; FOMINYKH, M.I.

Distribution of a discharge current along the grid of a mercury
rectifier. Elektrichestvo no.3:38-85 Mr '63. (MIRA 16:4)

1. Vsesoyuznyy elektrotekhnicheskiy institut imeni Lenina.
(Mercury—Arc rectifiers)

FOMINYKH, M.I., inzh.

Chemical treatment of underbrush along the electric power transmission
lines in the Urals. Energetik 9 no.5:32-36 My '61. (MIRA 14:5)
(Ural Mountains—Electric power distribution)
(2,4-D)

FOMINYKH, M.K. Prof

Article by M.K. Fominykh, Candidate of Veterinary Sciences, "Why are the Achievements of Veterinary Science not Applied?" (Izvestia, Dec.9,p2. 1000 words Condensed test) c. 1950
SO: Current Digest of the Soviet Press, Vol. II, No. 13, pp38-39; Unclassified deg

FOMINYKH, N.Ya.

Basaluminite from the secondary quartzites of the Kaluginskoye
deposit in the Central Urals. Trudy Inst. geol. UFAN SSSR no.70:
193-195 '65. (MIRA 18:12)

FOMINYKH, Ol'ga Ivanovna; MELESHKO, K.L., red.; ZLOBIN, M.V., tekhn. red.

[Achieve the highest milk yields] Dobivat'sia naivysshikh udov.
Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 13 p. (MIRA 11:7)

1. Doyarka Georgiyevskogo lubyanogo sovkhoza, Kurdayskogo rayona
Dzhambul'skoy oblasti. (for Fominykh).
(Kazakhstan--Dairying)

POMANIKH, V.A.; TYUMENOV, A.I.; KUCHIN, V.V.; ISKANDEROV, B.M.

Practices in the roasting of pyrite concentrates of the Altyn
Topkan Combine in furnaces with a fluidized bed. Khim.prom. 41
no.6:466-468 Je '65. (MIRA 18:8)

LATYSH, I.K.; POMINYKH, V.G.

Hornblendes of the hornblendites in the Pervoural'sk titanomagnetite deposit. Trudy Gor.-geol. inst. UFAI SSSR no. 35:101-117 '60.

(MIRA 14:1)

(Pervoural'sk region--Hornblende)

(Pervoural'sk region--Titanomagnetite)

BOGOMOLOVA, L.K.; FOMINYKH, V.G.

Garnets from the pegmatite vein of the Blyum mine in the Il'men
Mountains. Trudy Gor.-geol. inst. UPAN SSSR no. 35:171-199
'60.

(MIRA 14:1)

(Il'men Mountains--Garnet)

FOMINYKH, V.G.; YUNIKOV, B.A.

Spinel in the titanomagnetite deposits of the Urals. Zap.Vses.-
min.ob-va 90 no.6:717-720 '61. (MIRA 15:2)
(Ural Mountains--Spinel) (Ural Mountains--Titanomagnetite)

SHTEYNBERG, D.S.; FOMINYKH, V.G.

Composition of accessory titanomagnetite in different genetic
granitoid types of the Urals. Dokl. AN SSSR 139 no.5:1208-
1210 Ag. '61. (MIRA 14:8)

1. Predstavleno akademikom D.S. Korzhinskim.
(Ural ~~Mountains~~ --Rocks, Igneous)
(titan magnetites)

SHTEYNBERG, D.S.; FOMINYKH, V.G.

Distribution of accessory elements in titanomagnetites of the
Urals. Dokl. AN SSSR 139 no.6:1449-1451 Ag '61.

(MIRA 14:8)

1. Gorno-geologicheskii institut Ural'skogo filiala AN SSSR.
Predstavleno akademikom D.S. Korzhinskim.

(Ural Mountains—Titanomagnetites)

(Trace elements)

FOMINYKH, V.G.

Find of axinite in the Kopanskoye titanomagnetite deposit of the
Southern Urals. Trudy Gor.-geol.inst. UFAN SSSR no.56:99-100
'61.

(MIRA 15:7)

(Ural Mountains--Axinite)

LATYSH, I.K.; FOMINYKH, V.G.

Bleaching of common hornblendite in the Pervoural'skoye deposit.
Trudy Gor.-geol.inst. UFAN SSSR no.56:101-106 '61. (MIRA 15:7)
(Sverdlovsk region--Hornblendite)

ZNAMENSKIY, N.D.; FOMINYKH, V.G.

Composition of titanomagnetites in granitoids of the gabbro series
of the Central Urals. Dokl. AN SSSR 146 no.3:686-688 S '62. (MIRA 15:10)

1. Gorno-geologicheskii institut Ural'skogo filiala AN SSSR.
(Ural Mountains--Titanomagnetite)

SHTEYNBERG, D. S.; FOMINYKH, V. G.

On the composition of the titanomagnetites of the Urals.

Dokl. AN SSSR 147 no.6:1452-1454 D '62.

(MIRA 16:1)

1. Institut geologii Ural'skogo filiala AN SSSR. Predstavleno akademikom D. S. Korshinskim.

(Ural Mountains—Titanomagnetite)

FOMINYKH, V.G.

Distribution of titanium in the Pervoural'sk titanium-magnetite deposit. Geokhimiia no.8:742-744 '62. (MIRA 15:9)

1. Gorno-geologicheskii institut Ural'skogo filiala
AN SSSR, Sverdlovsk.
(Sverdlovsk region--Titanium)

FOMINYKH, V.G.; YUNIKOV, B.A.; SOKOLOV, Yu.A.

Maghemite in titanomagnetite ores in the Lesser Kuybas deposit
of the Southern Urals. Izv.vys.ucheb.zav.; geol. i razv. 6
no.11:69-72 N '63. (MIRA 18:2)

1. Institut geologii Ural'skogo filiala AN SSSR i Sverdlovskiy
gornyy institut im. V.V.Vakhrusheva.

SHTEYNBERG, D.S.; MALAKHOV, I.A.; FOMINYKH, V.G.

Genetic significance of the distribution characteristics of the
iron family elements in the igneous rocks of the Urals. Zap. Vses.
min. ob-va 93 no.5:591-605 '64. (MIRA 17:11)

1. Institut geologii Ural'skogo filiala AN SSSR.

FOMINYKH, V.G.; SVYAZHIN, N.V.

Composition of the accessory magnetites and titanomagnetite in
alkali rocks of the Central Ural Mountains. Dokl. AN SSSR
155 no. 5:1088-1089 Ap '64. (MIRA 17:5)

1. Institut geologii Ural'skogo filiala AN SSSR. Predstavleno
akademikom D.S.Korzhinskim.

SHTEYNBERG, D.S.; FOMINYKH, V.G.; MAKAROV, V.A.

Composition of pyroxenes in the Kachkanar intrusive complex.
Trudy Inst. geol. UFAN SSSR no.70: 92-97 '65. (MIRA 18:12)

FOMINYKH, V.G.; YUNIKOV, B.A.

Titanomagnetites of basalts of the Chelyabinsk depression in
the Southern Urals. Trudy Inst. geol. UFAN SSSR no.70:59-62
'65.
(MIRA 18:12)

FOMINYKH, V.G.; YEREMINA, M.V.; YUNIKOV, B.A.

Ulvospinel in the titanomagnetite deposits of the Urals.
Trudy Inst. geol. UFAN SSSR no.70:65-69 '65. (MIRA 18:12)

FOMINYKH, V.I.

X-ray therapy in postnatal mastitis. Trudy TSentr. nauch.-issl.
inst. rentg. 1 rad. 10:299-302 '59. (MIRA 12:9)
(X RAYS--THERAPEUTIC USE) (BREAST--DISEASES)

FOMINYKH, V.I., aspirant (Moskovskaya oblast', Mytishchi, ul. Butovskogo, d.8)

Roentgen therapy in prolonged puerperal mastitis. Vest.rent.1 rad.
34 no.5:11-14 S-O '59. (MIRA 13:3)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. I.A. Shekhter)
Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dots.
G.N. Beletskiy).

(MASTITIS radiotherapy)
(PUERPERIUM complications)

ACCESSION NR: AP4020335

S/0089/64/016/003/0253/0255

AUTHOR: Konstantinov, A. A.; Fominykh, V. I.; Yartseyeva, I. A.

TITLE: Absolute measurement of neutron source yield by the manganese activation method

SOURCE: Atomnaya energiya, v. 16, no. 3, 1964, 253-255

TOPIC TAGS: neutron source yield, measurement, manganese activation method, Mn sup 56, thermal neutron, dipping counter calibration, neutron yield

ABSTRACT: The method of manganese activation for measuring absolute neutrons is used most widely in metrological institutions. This method is based on the absolute measurement of Mn⁵⁶ activity, obtained under the influence of source neutrons placed in the center of a large tank filled with a solution of manganese sulfate. Since the thermal neutrons are absorbed by manganese, hydrogen and sulfur nuclei, the number of source emitted neutrons can be determined from the equation

$$Q = \frac{Q_{Mn} \sigma_{Mn} + Q_H \sigma_H + Q_S \sigma_S}{Q_{Mn} \sigma_{Mn}} Q_{Mn} \quad (1)$$

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ACCESSION NR: AP4020335

where Q_{Mn} , Q_S , Q_H are the manganese, sulfur and hydrogen nuclei in 1 cc. solution; σ_{Mn} , σ_S , σ_H are corresponding cross sections of capture of thermal neutrons; Q_{Mn} is the complete manganese activity. Dipping counter calibration was established. Indeterminacy in the value of a given amount caused an error in absolute β -count which was $\pm 1\%$. Neutron yield was computed. Corrections in background, decay during measuring and finite irradiation time of the solution were introduced into the number of readings during measurements with the dipping counter. Orig. art. has: 2 formulas.

ASSOCIATION: None

SUBMITTED: 18Apr63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 010

Card 2/2

YUDIN, Mikhail Fedorovich; FOMINYKH, Vladimir Ignat'yevich;
DOROFYEV, G.A., nauchn. red.; SHEVCHENKO, A.L., red.

[Neutron dosimetry] Neitronnaya dozimetriya. Moskva, Izd-
vo standartov, 1964. 214 p. (MIRA 17:9)

FOMINYKH, V.I.; YARITSYNA, I.A.

Apparatus for comparison of neutron sources of identical
spectral composition. Trudy inst. Kom. stand., mer 1 izm.
prib. no.69:75-85 '62. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. Mendeleyeva.

FOMINYKH, V.I.; YARITSYNA, I.A.

Actinium-beryllium emitters. Nov. nauch.-issl. rab. po metr.
VNIIM no.2:46-49 '64. (MIRA 18:4)

EWI(m) DIAAP

AM5003041

BOOK EXPLOITATION

S

Yudin, Mikhail Federovich; Fominykh, Vladimir Ignat'yevich

¹⁹
Neutron dosimetry (Neytronnaya dozimetriya) Moscow, Izd-vo Standartov, 1964.

212 p. illus., biblio., appendixes, fold-in chart. 500 copies printed.

Scientific editor: G. A. Dorofeyev; Editor: A. L. Serebrennikov; Technical

editor: V. A. Murashova; Proofreader: A. P. Yashnichkina.

TOPIC TAGS: neutron density, neutron detection, neutron dosimetry, neutron flux, neutron radiation, radiometry

PURPOSE AND COVERAGE: This book was written for personnel concerned with checking and calibrating neutron dosimeters, radiometers, and neutron radiators, and also for those who use these instruments. It may be of use also for students at vuzes specializing in the field of the dosimetry of ionizing radiations. The book begins with a brief presentation of the most important concepts in neutron dosimetry, testing properties, and classification of neutrons according to energy; then the characteristics of different neutron sources are presented, the processes of the interaction of neutrons with materials and biological tissue are analyzed, and methods and instruments utilized for measuring the density of neutron fluxes and

Card 1/3

L 31830-65

AM50037P1

The exposure dosage of neutron radiation are described, as well as methods and apparatus recommended for transferring unit dimensions from standards to test-
 apparatus, working neutron radiators, radiometers, and dosimeters.

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Ch. I. Neutron sources and their basic characteristics - - 14

a. II. Basic process of interaction of neutrons with materials - - 40

b. III. Basic processes of interaction of neutrons with biologic tissue - - 62

c. IV. Methods of measuring neutron fluxes¹⁰ and the apparatus applied - - 79

d. V. Dosimetry of neutron radiation - - 100

e. VI. Methods of converting units of neutron-flux density and neutron-dosage
 (exposure (rad) and the apparatus applied - - 154

Protection against neutron radiation - - 194

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APPROVED

DATE: 06/13/2000

SUBMITTED: 06/13/2000

Card 3/3

L 2599-66 EWT(m)/EPF(n)-2/EWA(h)
ACCESSION NR: AP5019200

UR/0115/65/000/006/0043/0046
621.039.555

22
B

AUTHOR: Fominykh, V. I.

TITLE: Comparing neutron radiators¹⁹ having different spectra

SOURCE: Izmeritel'naya tekhnika, no. 6, 1965, 43-46

TOPIC TAGS: neutron radiation, neutron spectrum

ABSTRACT: Comparison of the yields of two neutron sources having different spectra by means of a flat-response counter is considered. The counter efficiency is constant, with an error of $\pm 8\%$, within neutron energies of 40×10^{-16} to 14×10^{-13} joules. A formula is developed for the unknown yield of a neutron source which is compared with a reference source by a flat counter; also, a formula for calculating the error involved is derived. In a comparison of a $\text{RaBe}(\alpha, n)$ source with a $\text{PuBe}(\alpha, n)$ source, these recommendations are given: (1) The same distance from both sources; (2) Allowance for stray

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L 2599-66

ACCESSION NR: AP5019200

radiation; (3) Correction for the effective center; (4) It is desirable that the source yields do not differ more than 5 times. The flat-response counter may also be used for comparing neutron sources of the same type and as a reference instrument for measuring fast-neutron fluxes. Orig. art. has: 21 formulas and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 005

Card 2/2

ANDREYEV, O.I.; SILIN, Yu.S.; STUKOV, G.M.; FOMINYKH, V.I.; SHCHEBOLEV,
V.I.; YARITSYNA, I.A.

International comparisons of neutron sources. Atom. energ.
19 no.2:181-182 Ag '65. (MIRA 18:9)

L 14681-66 EWT(m)/EPF(n)-2/EWA(h) DM
ACC NR: AP6008257 SOURCE CODE: UR/0089/65/019/002/0181/0183

AUTHOR: Andreyev, O. L.; Silin, Yu. S.; Stukov, G. M.; Fominykh, V. I.;
Shchebolev, V. T.; Yarityna, I. A. 12
B

ORG: none

TITLE: International comparison of neutron sources 19, 44, 45

SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 181-183

TOPIC TAGS: neutron distribution, radioactive source, neutron, radium, beryllium, radiation counter

ABSTRACT: The relative measurements of the Canadian Ra- α -Be neutron source were carried out considering the neutron distribution in open geometry and using a long counter which could turn the source at any required angle. With the source axis of rotation coinciding with the cylinder axis, the asymmetry was 1% and with the source axis turned to the side of the surface it was 1.5%. The relative measurements for the source indicated 3.25 neutrons/sec. Orig. art. has 2 figures and 1 table. NA7

SUB CODE: 20, 18 / SUBM DATE: 13Oct64 / ORIG REF: 003 / OTH REF: 005

Card 1/1 AC UDC: 539.16.08: 539.125.5
2

KLIMASENKO, L.S. Geroy Sotsialisticheskogo Truda; FOMINYKH, V.I.

New metallurgical giant in the western part of the country.
Metallurg 9 no.4:3-5 Ap '64. (MIRA 17:9)

1. Direktor Zapadno-Sibirskogo metallurgicheskogo zavoda (for Klimasenko). 2. Zamestitel' nachal'nika domennogo tsekha Zapadno-Sibirskogo metallurgicheskogo zavoda (for Fominykh).

FOMINYKH, V. N.

FOMINYKH, V. N. (Candidate of Veterinary Sciences.) On the problem of treatment of periodic inflammation of the eyes of horses.

So: Veterinariya; 24; 10; October 1947; Uncl.
TABCON

FOZMINYKH, V. N., Cand. Vet. Sci.

"On the problem of the clinic of the periodic inflammation of the eyes in horses".

SO: Veterinariya 26 (3), 1949, p. 23

FOMINYKH, V. V.

"Why are the Achievements of Veterinary Science not applied?"

SO: Current Digest of the Soviet Press, Vol II, No 43, 1950, pp 38-39, uncl

FOMINYKH, V. N.

"An advanced veterinary hospital"

SO: Vet. 28(3), 1951, p 47

CTS 43, 29 May 53, page 122

CTS 48, 23 Oct 53, page 102

KHANAPETOV, Mikhail Vasil'yevich; FOJINYKH, Vitaliy Profir'yevich;
TSAGEL'SKIY, Vladimir Leopoldovich, nauchn. red.;
ZHURAVLEV, B.A., red.

[Electric welder for responsible welding operations] Elek-
trosvarshchik otvetstvennykh svarochnykh rabot. Moskva,
Stroiizdat, 1964. 262 p. (MIRA 17:12)

L 15973-66 EWT(1)/EWT(m)/ENP(t) IJP(c) JD/JG

ACC NR: AF5027674

SOURCE CODE: UR/0051/65/019/005/0800/0808

AUTHOR: Lukirskiy, A. F. (Deceased); Fomischev, V. A.

ORG: none

TITLE: Damping emission of the tungsten anode in the region of 25 - 250 A wave length
55, 27

SOURCE: Optika i spektroskopiya, v. 19, no. 5, 1965, 800-808

TOFIG TAGS: tungsten, absorption spectrum, spectral distribution, electrode

ABSTRACT: A method of measuring the relative intensities for a wide spectral range was investigated. The spectral distribution in the spectral region of 25 - 250 A of a tungsten anode was obtained corresponding to the 24 - 5 kv accelerating potentials. Such a damping emission could be used for an investigation of absorption spectrums with a high energy resolution. The distribution of the intensity in the damping spectrums of tungsten anodes for 70 - 120 v accelerating potentials was also investigated. A sharp structure was detected near the short-wave boundary of the spectrum. Orig. art. has: 10 figures and 4 formulas.

SUB CODE: 30 09/ SUBM DATE: 07Jul64/ ORIG REF: 008/ OTH REF: 006

Card 1/1 bvk

UDC: 535.237 : 537.531

2

CHERTKOV, Ya.V.; RYBAKOV, K.N.; ZAELOV, V.N.; POMISHENKO, B.A.

Efficiency of fuel storage filters. Transp. i khran. nefti
no. 3:22-25 '63. (MIRA 17:7)

1. NII-25

SUD'INA, Ye.G. [Sud'ina, Ye.G.]; GRILOV, H.G. [Gribov, H.G.]; DOVBYSH, K.P.
[Dovbysh, K.P.]; FOMISHINA, R.M. [Fomishyna, R.M.]

Changes in the biosynthesis and the state of chlorophyll during
the insufficiency of some elements. Ukr. bot. zhur. 21 no.4:3-10
'64. (MIRA 17:11)

1. Otdel biokhimi Institute botaniki AN UkrSSR.

L 19721-65 ENT(m)/EWP(t)/EWP(b) JD
ACCESSION NR: AP4048839

S/0119/64/000/011/0016/0018

AUTHOR: Kalimanova, L. P.; Fominskaya, N. A.; Sharafan, A. I.;
Frantsevich-Zabludovskaya, T. F. (deceased) B

TITLE: Producing thin nickel film on porcelain by a chemical nickel-plating process

SOURCE: Priborostroyeniye, no. 11, 1964, 16-18

TOPIC TAGS: nickel plating

ABSTRACT: The results of experiments with chemical plating of 0.1-0.2-micron nickel film on 20-cm² porcelain plates and 4.7-cm² porcelain cylinders are reported. The best method found of pretreating the porcelain surface includes the following: sensibilization in a solution of 70 g/lit SnCl₂ and 40 ml/lit HCl for five min at 20C; washing in acidified water and drying; activation in a 1 g/lit solution of palladium chloride, pH = 2-3, for 5 min at 20C with subsequent drying;

Card 1/2

L 19721-65

ACCESSION NR: AP4048839

0
treatment with a 5% solution of NaH_2PO_2 for 30 sec with subsequent washing; a second activation by the same palladium-chloride solution for 30--60 sec and drying. The nickel plating was performed in a nickel-chloride solution (30 g/lit with NaH_2PO_2 (10 g/lit) doped by various additions (sodium citrate, succinic acid, glycocoll, etc.). The rate of plating, evaluation of quality, and methods of checking the liquor are indicated. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, EC

NO REF SOV: 003

OTHER: 006

Card 2/2

FOMINYKH, Ye.

Planning wages based on the average grade. Sotrud 8 no. 3-133-134
Mr '63. (MIRA 16:3)

1. Nachal'nik Normativno-issledovatel'skoy stantsii Upravleniya
mashinostroyeniya soveta narodnogo khozyaystva Estonskoy SSR.
(Estonia—Wages—Machinery industry workers)

FOMINYKH, Ye.

Working out calendar plans for reviewing norms. Sots. trud 8 no.10;
80-82 0 63. (MIRA 16:12)

BEREGOVSKIY, V.I.; BREGMAN, R.V.; DANILOVA, L.A.; KOZYREV, V.S.;
TARASOV, B.Ye.; TEPEL, V.S.; FOMINYKH, Ye.G.; LIBERMAN,
S.S., red.; KOROVINA, N.A., tekhn. red.

[Complete use of pyritic cinders] Kompleksnoe ispol'zova-
nie piritnykh ogarkov. Moskva, Metallurgizdat, 1963. 71 p.
(MIRA 17:3)

40025

S/065/62/000/010/003/004
E075/E136

11.0132

AUTHORS: Chertkov, Ya.B., Zrelov, V.N., Rybakov, K.V.,
Shagin, V.M., and Fomishenko, B.A.

TITLE: Characteristics of micro-impurities in middle
distillate fuels

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.10, 1962,
56-59

TEXT: The authors investigated the nature of micro-impurities
in fuel TC-1 (TS-1) used in aviation gas-turbine engines. The
impurities in the fuels form through the interaction of metal
containing compounds with high molecular weight, resinous compounds
and moisture. The metal-containing compounds originate from
corrosion of tanks and moving parts of various mechanisms, as well
as leaching of certain fillers from plastic materials. The
relatively coarse particles of the impurities form mainly by the
agglomeration of finely dispersed material. The formation of
particles having the size of 0.1-1 micron is speeded up by
increasing temperature, agitation and excessive pressures.

Card 1/2

Characteristics of micro-impurities.. S/065/62/000/010/003/004
E075/E136

The inorganic part of the impurities in fuel TS-1 contained 13.7% of Fe after filtration through a filter with 7 micron pores. This indicated that Fe can be present in the fuels in a finely divided state. The second most abundant element in the impurities is Si. The organic part of the contaminants contained S and N, the latter being present only in the organic part, whereas some of the sulphur was present also in the inorganic part of the impurities. To avoid the contamination of the fuels it is advisable to carry out systematic removal of moisture, prevent the formation of high molecular weight resins and exclude metal containing compounds.
There are 4 tables.

Card 2/2

FOMISHENKO, I.V.

Problems and questions on the topic "Properties of
liquids." *Fiz. v shkole* 16 no.6:79 M-D '56.

(MLRA 9:12)

1. 41-ya srednyaya shkola, g. Zhdanov.
(Liquids--Study and teaching)

FOMISHENKO, I. V. (Zhdanov)

Problem questions on the mechanics of liquids and gases. Fiz. v
shkole 22 no.4:93 J1-Ag '62. (MIRA 15:10)

(Physics—Problems, exercises, etc.)

FOMITCHEVA, E.U.

Posttraumatic scar stenosis of pharynx. Acta chir. plast. (Praha)
6 no.4:292-301 '64.

1, Department of Surgical Stomatology (Chief Surgeon: Prof.
F.M. Khitrov), and Central Scientific Research Institute of
Stomatology, Moscow (U.S.S.R.) (Director: Prof. A.I. Rybakov).

BUDOVICH, B.; GAMBURG, R.; ZAKHARENKO, A.; NADEZHDINA, K., obshchestvenitsa-pensionerka; NOWIK, L.; FIGUZOVA, N.; SMIRNOVA, I.; FOMITSKAYA, I.; deputat Minskogo gorodskogo Soveta; BURMISTOVA, L.

Place nurseries and kindergartens under the control of women. Rabotnitsa 40 no.7:18-19 J1 '62. (MIRA 16:2)

1. Predsedatel' zhenskogo soveta stankoi stroitel'nogo zavoda imeni Oktyabr'skoy revolyutsii (for Budovich). 2. Predsedatel' zhenskogo soveta gomeles'skoy fabрики "Komintern" (for Gamburg). 3. Korrespondent gazety "Gomel'skaya pravda" (for Zakharenko). 4. Korrespondent zhurnala "Rabotnitsa i syalyanka" (for Figuzova, Smirnova). 5. Korrespondent zhurnala "Rabotnitsa" (for Burmistrova).
(White Russia--Nursery schools) (White Russia--Kindergartens)

VOL'FSON, P.M.; SII'CHENKO, V.I.; FOMITSKIY, F.F., kand. tekhn. nauk

Evaluation of mining systems used in some Krivoy Rog Basin
mines from the point of view of losses and the depletion of
ores. Met. i gornorud. prom. no.1:48-51 Ja-F '64.
(MIRA 17:10)

KOMAROV, I.M., inzh.; BONDARENKO, N.I., inzh.; FOMITSKIY, I.V., mekhanik

TKZM-3,5 tractor-drawn mower for green crops. Mekh. sil'. hosp.
10 no.3:25-26 Mr '59. (MIRA 12:6)

(Mowing machines)

FOMITSKIY, N. I.

Fomitskiy, N. I. -- "Agrobiological Evaluation of the Starting Material for Selection of Spring Wheat under the Conditions of the Peat-Bog Soils of the Belorussian SSR." Acad Sci Belorussian SSR. Inst of Socialist Agriculture. Minsk, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis', No 12, 1956

COUNTRY : USSR
CATEGORY :

M-1.

AB3. JOUR. : RZBiol., No. 18, 1957, No. 86975

AUTHOR : Trizno, S. I.; Fomitskiy, N. I.
INST. : Belorussian Scientific Research Institute of
TITLE : Some Results of Selection of Grain Crops on
Peat-Marsh Soils of Belorussian SSR.

ORIG. PUB. : Sb.: Osnovnyye rezultaty nauchno-issled.
raboty Belorussk. n.-i. in-ta melior. 1 **
ABSTRACT : No abstract.

CARD: //

* Land Reclamation and Water Management.
** vodn.kh-va za 1956 g. Minsk, AN BSSR, 1957, 121-133.

BOLOTOV, L.; GREBENNIKOV, Yu.; FOMKIN, B.; KHERUVIMOV, V.

Readers' Letters. NTO 5 no.5:43 My '63.

(MIRA 16:7)

1. Zamestitel' predsedatelya Khar'kovskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Bolotov). 2. Predsedatel' sektsiy zhivotnovodstva Vitebskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Grebennikov). 3. Chlen soveta nauchno-tekhnicheskikh obshchestv Gosudarstvennogo vsesoyuznogo instituta po proyektirovaniyu i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti (for Fomkin). 4. Uchenyy sekretar' soveta nauchno-tekhnicheskogo obshchestva Kurskoy oblastnoy veterinarnoy laboratorii (for Kheruvimov).

(Technological innovations)

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17971

Author : Fomkin, B.G.

Inst :

Title : An Apparatus for Study of Occult (Latent) Periods and
Speed of Conditioned-Reflex Motor Reactions of Man
under Industrial Conditions

Orig Pub : Gigiyena i sanitariya, 1957, No 2, 74-76

Abstract : The "Electric spark chronoreflexograph" is constructed
on the principle of burning through paper tape with a
spark of alternating current. The output signal part
of the apparatus includes light and sound stimuli. The
registering part consists of an amplifying transformer
(the voltage is given with the beginning of signal ac-
tion), needle electrode and drum on a stand (second
electrode), rotated by a motor (1 rot./sec). Pressing

Card 1/2

- 111 -

USSR/Human and Animal Physiology - (Normal and Pathological). T
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17971

of a button by the test subject shuts off the transformer
and interrupts the registration. The number of dots in
the beginning of registration determines the latent period,
the number of missed dots the speed (time) of reaction
with an accuracy to 0.01 sec. A worm mechanism pushes
the needle electrode, assuming uninterrupted registration
along the helix. The latent period of reaction in workers
at a rolling mill was determined within the limits of
0.28-0.35 sec., the speed of reaction within 0.04-0.08
sec. The advantages of the apparatus over analogous ob-
jects are portability, possibility of utilization under
the conditions of any industry. -- K.S. Ratner.

Card 2/2

FOMKIN, B.T., mladshiy nauchnyy sotrudnik

Apparatus for determining latent periods and rates of conditioned reflex motor reactions of man during work. Gin. i san. 22-no.2:74-76 F '57

(MLRA 10:4)

1. Iz Dnepropetrovskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny imeni N.F. Gamalei.

(REFLEX, CONDITIONED

appar. for determ. of latent periods & rate during work)

(WORK, physiol.

appar. for determ. of latent periods & rate of conditioned reflex during work)

FOMKIN, F.L., dots.; SAPITSKIY, N.I.; KHALOV, O.A., kand. ekon. nauk; SHIKHANOVICH, L.I.; MEREDOV, A.M., starshiy nauchnyy sotr.; ATAYEV, Ch.A., kand. ekon. nauk; KONDAKOV, V.F., kand. ekon. nauk; LAVRINENKO, V.T., kand. ekon. nauk; KOZLOV, N.Ye., refer.; SHUMEYKO, T.I., red. izd-va; ZUBOVA, N.I., tekhn. red.

[Studies on the economics of the agriculture of the Turkmen S.S.R.] Ocherki po ekonomike sel'skogo khoziaistva Turkmenskoi SSR. Ashkhabad, Turkmengosizdat, 1962. 446 p. (MIRA 16:5)

1. Zaveduyushchiy otdelom ekonomiki sel'skogo khozyaystva Turkmenskogo nauchno-issledovatel'skogo instituta zemledeliya (for Shikhanovich). 2. Turkmenskiy nauchno-issledovatel'skiy institut zemledeliya (for Meredov).
(Turkmenistan—Agriculture—Economic aspects)

FOMKIN, G.

Device for unscrewing jet blocks. Avt. transp. 37 no.2:50 P '59.
(MIRA 13:1)

(Tools)

FOMKIN, G.

Instrument for checking valves of carburetors and gasoline
pumps. Avt. transp. 37 no.5:53 My '59. (MIRA 12:6)
(Pneumatic instruments)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 178 (USSR) 15-57-10-14445D

AUTHOR: Fomkin, K. V.

TITLE: Study of Geological Structure and Formation of
Petroleum and Gas Deposits in the Archedino-Don
Region and the Plan of Working the Archedinskoye Deposit
(Izucheniye geologicheskogo stroyeniya i usloviy formi-
rovaniya zalezhey nefi i gaza Archedino-Donskogo
rayona s analizom razrabotki Archedinskogo mestoro-
zhdeniya)

ABSTRACT: Bibliographic entry of the author's dissertation for
the degree of Candidate of Geological and Mineralogi-
cal Sciences, presented to the Mosk. nef. in-t, (Moscow
Petroleum Institute), Moscow, 1957

ASSOCIATION: Mosk. nef. in-t (Moscow Petroleum Institute), Moscow
Card 1/1